

NPPA DESIGNATION 704

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|-----------------|-----------------|------|
| HAZARD RATING | HEALTH | 1 |
| 4=Extreme | | |
| 3=High | FIRE | 1 |
| 2=Moderate | | |
| 1=Slight | REACTIVITY | 0 |
| 0=Insignificant | | |
| | SPECIFIC HAZARD | NONE |



MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
 ADDRESS: 7910 Manchester Ave.
 St. Louis, Mo. 63143
 United States of America

CONTACT: Terry Heller
 EMERGENCY PHONE NO: 314-781-2105
 APPROVED BY: Terry Heller
 TITLE: Manager, Materials R/D
 DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: MB-30 HONING OIL
 VGS-20657 SEAT CUTTING OIL

CHEMICAL FAMILY: PETROLEUM-BASED LUBRICATING OIL WITH NON-PETROLEUM FATTY ADDITIVES AND METAL DEACTIVATOR.
 CLASSIFICATION: PETROLEUM OIL N.O.S.
 D.O.T. SHIPPING CLASS: COMBUSTIBLE LIQUID
 IDENTIFICATION NUMBER: NA1270

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

| COMMON NAME | CHEMICAL NAME OF COMPONENTS | CAS NO | OSHA PEL mg./cu. m. | ACGIH TLV-TWA mg./cu. m. | CARCINOGENIC |
|----------------|---|------------|---------------------|--------------------------|--------------|
| MINERAL OIL | PETROLEUM DISTILLATE | 64741-44-2 | 5 (mist) | 5 (mist) | N |
| MINERAL OIL | PETROLEUM DISTILLATE, SEVERELY HYDROTREATED, LIGHT NAPHTHENIC | 64742-53-6 | 5 (mist) | 5 (mist) | N |
| MINERAL OIL | PETROLEUM DISTILLATE, SEVERELY HYDROTREATED, HEAVY NAPHTHENIC | 64742-52-5 | 5 (mist) | 5 (mist) | N |
| SULFURIZED FAT | SULFURIZED FATTY OIL | 61790-49-6 | NONE | NONE | N |
| FAT | ANIMAL FATTY OIL | 8016-28-2 | NONE | NONE | N |
| TOLYLTRIAZOLE | TOLYLTRIAZOLE | 29385-43-1 | NONE | NONE | N |

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)-----0.904
 PERCENT VOLATILE BY WEIGHT-----<1%
 BOILING POINT----->500 F (260 C)
 VAPOR PRESSURE (mm Hg)-----<1mm Hg @ 68 F (20 C)
 VAPOR DENSITY (AIR=1)-----No applicable information found.
 EVAPORATION RATE-----Negligible
 SOLUBILITY IN WATER-----Negligible. Material is completely soluble in common hydrocarbon or chlorinated hydrocarbon solvents such as mineral spirits or trichloroethane.
 REACTIVITY IN WATER-----Not reactive.
 APPEARANCE AND ODOR-----Dark brown mobile liquid with characteristic odor of sulfurized fat.

SECTION 4 SPECIAL PRECAUTIONS HANDLING AND STORAGE: NONE Refer to section 7.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: Material is stable under normal conditions of transport and storage.
 POLYMERIZATION: Hazardous polymerization will not occur.
 INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidation agents such as fuming nitric acid can produce a violent reaction. Material may react with any amount of alkali such as part cleaners to form corresponding amounts of soaps and/or emulsions.
 CONDITIONS TO BE AVOIDED: Do not use near sparks flames or other sources of ignition. Do not smoke in the presence of oil mist.
 HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of sulfur, carbon monoxide and carbon dioxide as products of combustion.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

PRIMARY ROUTE(S) OF ENTRY ARE: INHALATION AND SKIN ABSORPTION.
 ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE

ACUTE

CHRONIC

MINERAL OIL

SKIN ABSORPTION: May irritate the skin.

Predisposing factors: Usually individuals with sensitive skin or large amounts of body hair. Material is not sterile and may infect open cuts or sores. When tested, MB-30 was judged to be non-irritating per 16 CFR 1500.3(c)(4).
 Primary irritation index=2 (Albino Rabbits).

INGESTION: Acute oral toxicity: LD 50>5 gm./kg. (rats).

INHALATION: Observe ACGIH limits for oil mist. Symptoms of overexposure to oil mist include coughing, sore throat, headache, chest pain and difficult breathing. Predisposing factors: Individuals with pre-existing respiratory impairments (such as emphysema) can display increased sensitivity to oil mists or vapors.

EYE CONTACT: When tested, MB-30 was judged to be non-irritating per 16 CFR 1500.42. No corneal opacity, iritis or moderate conjunctival irritation after; 1,2,3 days (Draize, rabbits).

Prolonged repeated skin contact can cause skin irritation or oil acne; inflammation and blackheads due to mechanical blockage of the pores. Prolonged or repeated exposure may aggravate existing dermatitis.

None known.
 None known.

EMERGENCY FIRST AID

INHALATION: Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, begin mouth to mouth resuscitation. EYE CONTACT: Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation.

SKIN CONTACT: Wash contact areas with mild non-abrasive soap and water. INGESTION: Do not induce vomiting. Call physician or poison control center immediately.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store away from heat or flame. If stored outdoors, store so as to shed water. Product may separate if exposed to temperatures below 50 F. If so, material should be heated to 50 F and mixed prior to transfer of contents. Vent container by removing lid while heating.

NORMAL USE: May cause skin irritation and/or defat the skin on prolonged or repeated contact. Practice good personal hygiene by washing hands several times each day. Launder contaminated clothing before reuse. Avoid wearing clothing soaked with fluid. Avoid prolonged inhalation of mist or vapors. Do not transfer to unlabeled containers. Do not reuse containers for other materials or purposes. Do not cut, braze, weld, solder, or pressurize container as doing so may cause container to EXPLODE, potentially causing serious injury or DEATH. FOR INDUSTRIAL USE ONLY. Not suitable for use in or around household or dwelling. All precautions detailed on the container label apply to partially full or empty containers. Do not attempt to clean as residue is difficult to remove. Empty drums should be completely drained, properly closed and returned to a drum conditioner to be commercially cleaned. Otherwise, containers should be disposed of in an environmentally safe manner and in accordance with applicable governmental regulations.

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Absorb on fire retardant absorbent. Gather and dispose of in accordance with applicable regulations. Notify Coast Guard if spill could reach any waterway (1-800-424-8802) and also notify state/local authorities.

WASTE DISPOSAL METHODS: Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If use conditions give rise to excessive mist (greater than 5 mg/cu M) use a NIOSH approved respirator rated for mineral oil mist or forced ventilation to reduce mist exposure to well below TLV levels.

VENTILATION-LOCAL: Normal. MECHANICAL: Required if use conditions give rise to levels greater than 5 mg/cu M.
OTHER: No applicable information found.

SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed. Do not wear oil soaked clothing.

EYE PROTECTION: Always wear NIOSH approved eye protection when working around or operating machinery.

OTHER EQUIPMENT: Oil-impervious apron if desired.

MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT WITH THIS MATERIAL: Same as for petroleum lubricating oil. Remove traces of material if soldering, welding, brazing, cutting or other process involving ignition sources to prevent a fire hazard.

SECTION 9 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT-----310 F (155 C) ASTM D-92

FLAMMABLE LIMITS--- LEL: UNKNOWN UEL: UNKNOWN

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: For fires in enclosed areas, firefighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Sealed containers may explode if exposed to extreme heat.

NOTICE

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